WO 2005/092842 PCT/JP2005/005655

CLAIMS

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1. A method for producing a (meth)acrylate derivative having an isocyanate group, the method comprising performing dehydrochlorination of a 3-chloropropionate derivative having an isocyanate group, the derivative being represented by the formula (1), in the presence of a basic nitrogen compound having a tertiary nitrogen to prepare a (meth)acrylate derivative having an isocyanate group, the derivative being represented by the formula (2), wherein the tertiary nitrogen of the basic nitrogen compound has at least one

$$C1-CH_2-CHR^1-COO-R^2-NCO$$
 ...(1)

group other than an aromatic ring group:

$$CH_2 = CR^1 - COO - R^2 - NCO$$
 ... (2)

wherein R<sup>1</sup> is a hydrogen atom or a methyl group, R<sup>2</sup> is an alkylene group of 1 to 10 carbon atoms that may be branched, or a hydrocarbon group in which a cycloalkylene group of 3 to 6 carbon atoms has alkylene groups of 0 to 3 carbon atoms at ends thereof.

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2. The method for producing a (meth)acrylate derivative having an isocyanate group according to claim 1, wherein the basic nitrogen compound has a boiling point lower than that of the (meth)acrylate derivative produced.

3. The method for producing a (meth)acrylate derivative having an isocyanate group according to claim 1 or 2, wherein the basic nitrogen compound is trialkylamine.

31

PCT/JP2005/005655

5

WO 2005/092842

4. The method for producing a (meth)acrylate derivative having an isocyanate group according to claim 1, wherein the basic nitrogen compound is insoluble in a reaction solvent.

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- 5. The method for producing a (meth)acrylate derivative having an isocyanate group according to claim 4, wherein the basic nitrogen compound insoluble in a reaction solvent is an ion-exchange resin having a tertiary nitrogen.
- 6. The method for producing a (meth)acrylate derivative having an isocyanate group according to any one of claims 1 to 5, wherein the dehydrochlorination is performed at temperatures of 40 to 120°C.
- 7. The method for producing a (meth)acrylate derivative having an isocyanate group according to any one of claims 1 to 6, wherein the dehydrochlorination is followed by distillation to remove the residual basic nitrogen compound.

WO 2005/092842 PCT/JP2005/005655

32

8. The method for producing a (meth) acrylate derivative having an isocyanate group according to any one of claims 1 to 7, wherein the group  $R^2$  is an alkylene group of 1 to 10 carbon atoms that may be branched.

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- 9. The method for producing a (meth)acrylate derivative having an isocyanate group according to claim 8, wherein the group  $R^2$  is  $-CH_2-CH_2-$  or  $-CH_2-CH_2-CH_2-$ .
- 10. The method for producing a (meth) acrylate derivative having an isocyanate group according to any one of claims 1 to 9, wherein the dehydrochlorination is performed in the presence of the basic nitrogen compound in an equivalent amount of 0.5 to 10 moles per mole of alkali decomposable chlorine in a solution that contains the 3-chloropropionate derivative having an isocyanate group of the formula (1).
- 11. The method for producing a (meth)acrylate
  20 derivative having an isocyanate group according to any
  one of claims 1 to 10, wherein the hydrolyzable chlorine
  concentration in the product isolated by simple
  distillation is not more than 300 ppm.
- 25 12. A (meth)acrylate derivative having an isocyanate group, which is obtained by the method described in any one of claims 1 to 11.

WO 2005/092842

5

PCT/JP2005/005655

- 13. The (meth) acrylate derivative having an isocyanate group according to claim 12, wherein the hydrolyzable chlorine concentration is not more than 300 ppm.
- 14. A method for reducing a hydrolyzable chlorine content, the method comprising treating a solution containing a (meth) acrylate derivative having an

  10 isocyanate group, the derivative being represented by the formula (2), and the hydrolyzable chlorine with a basic nitrogen compound having a tertiary nitrogen, wherein the tertiary nitrogen has at least one group other than an aromatic ring group:
- wherein R<sup>1</sup> is a hydrogen atom or a methyl group, R<sup>2</sup> is an alkylene group of 1 to 10 carbon atoms that may be branched, or a hydrocarbon group in which a cycloalkylene group of 3 to 6 carbon atoms has alkylene groups of 0 to 3 carbon atoms at ends thereof.